

US Version
Harmony Defender Reha
2-in-1 CarSeat

ONLY for children who meet following requirements:

HARNES MODE:

Weight: 22 - 65 lbs / 10 - 29.5 kg and height: 27 - 57 in / 68.6 - 144.8 cm

BOOSTER MODE:

Weight: 30 - 110 lbs / 13.6 - 50 kg and height: 34 - 57 in / 86.4 - 144.8 cm



**Instructions for assembly and use
of the Reha version (supplement)**

Harmony Defender Reha – US Version – 2-in-1 CarSeat



(A)



(B)



(1a)



(1b)



(2a)



(2b)



(3a)



(3b)



(4a)



(5a)



(5b)

Harmony Defender Reha – US Version – 2-in-1 CarSeat



(6a)



(6b)



(7a)



(7b)



(7c)



(7d)



(8a)



(9a)



(9b)



(9c)



(9d)

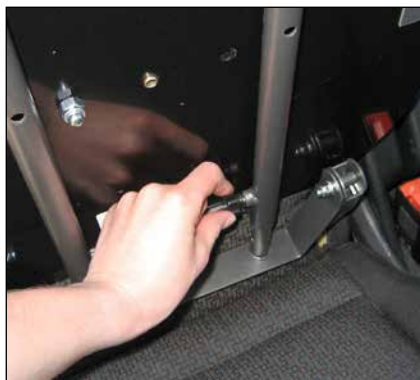
Harmony Defender Reha – US Version – 2-in-1 CarSeat



(10a)



(10b)



(10c)



(11a)



(11b)



(11c)



(12a)



(12b)



(12c)



(12d)

Dear Defender Reha user,

To make handling of your new children car seat safe, practical, and comfortable for both you and your child, please read these instructions and the instructions enclosed to the seat before use.

This manual is a supplement to the original Harmony Defender assembly and usage instructions. Some aspects in handling the car seat have changed, due to the modification into a Reha version. These changed aspects are described in this supplementary user manual.

PLEASE NOTE: All user manuals are stored in a transparent bag at the back rest of Defender Reha seat. Please always use this storage section. (Fig. A)

Should you have further questions or problems, please contact your specialist dealer or us directly.

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Seattle WA 98108
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General instructions

READ THIS MANUAL: Do not install or use this child restraint until you read and understand the instructions in this, Harmony's and your vehicle's owner manual.

PLEASE NOTE: This child restraint and all accessories conforms to Federal Motor Vehicle Safety Standard 213 and are certified for use in passenger motor vehicles only.

Harness Mode ONLY

ONLY use Defender Reha in Harness Mode with children who meet following requirements:

- Weight: 22 - 65 lbs / 10 - 29.5 kg and Height: 27 - 57 in / 68.6 - 144.8 cm

You can install the child restraint using **EITHER** the LATCH or vehicle seat belt.

If LATCH is not an option, you **MUST** use the vehicle seat belt to install the child restraint in your vehicle.

PLEASE NOTE: This restraint in Harness Mode is certified for aircraft use.

Booster Mode ONLY

ONLY use Defender Reha in Booster Mode with children who meet following requirements:

- Weight 30 - 110 lbs / 13.6 - 50 kg and Height 34 - 57 in / 86.4 - 144.8 cm

ONLY use Defender Reha as a high back belt-positioning booster where 5-point harness is used only as a positioning harness:

During the course of this test it was verified that the 5-point belt for children with a body weight of 13,6 kg and more (30 lb) can be used as an additional positioning belt.

In this case, ALWAYS secure your child using the vehicle's 3-point safety belt and observe the notes on correct installation contained in the original Harmony Defender Instructions for Installation and Use.

In Booster Mode the 5-point positioning belt integrated into the child seat is NOT a safety-relevant item. In this case the child is restrained by the vehicle's 3-point safety belt. The 5-point belt is only intended for use as a positioning belt to provide additional support for children with a body weight between 30 and 110 lbs / 13.6 and 50 kg and body height between 34 and 57 in / 86.4 and 144.8 cm

PLEASE NOTE: In Booster Mode this restraint is **NOT** certified for aircraft use.

Purpose / indication

The children's car seat Defender Reha is designed for the transport of children's with special needs in vehicles. It meets the needs of children's with following clinical pictures, who are not able to sit freely and independently:

- cerebral palsy
- hypotony syndrome of unspecific genesis
- muscular dystrophy
- different syndrome diseases

The car seat is characterized by its shell design and pad system, which provide for additional seating safety, stabilization of head and pelvis, and support / control of the feet.

Thus, the Defender Reha meets the needs of disabled children very well.

Application risks / contraindications

No application risks / contraindications are known.

Warranty

Limited 2-years warranty

This child restraint is warranted against defective materials and workmanship for two years from the date of original purchase. Thomashilfen will, at its option, provide replacement parts for this product or replace this product. Thomashilfen reserves the right to discontinue or change fabrics, parts, models or products, or to make substitutions.

WARRANTY LIMITATIONS

This warranty does not include damages which arise from negligence, misuse, or use not in accordance with this instruction manual. The use of non-Thomashilfen branded covers, inserts, toys, accessories or tightening devices is not approved by Thomashilfen. Their use could cause this child restraint to fail federal safety standards or perform worse in a crash. Their use automatically voids the Thomashilfen warranty.

LIMITATIONS OF DAMAGES

The warranty and remedies as set forth above are exclusive and in lieu of all others, oral or written, express or implied. In no event will Thomashilfen or the retailer selling this product be liable to you for any damages, including incidental or consequential damages, or loss of use arising out of the use or inability to use this product.

PLEASE REGISTER THIS CHILD RESTRAINT WITHIN 30 DAYS OF PURCHASE TO EXPEDITE WARRANTY CLAIMS AND TO VERIFY ORIGINAL DATE OF PURCHASE.

Safety warnings

WARNING! DEATH or SERIOUS INJURY can occur

- ONLY use Defender Reha with children who meet following requirements: Weight: 10 - 50 kg / 22 - 110 lbs and Height: 68.6 - 144.8 cm / 27 - 57 in
- NEVER use this child restraint without backrest.
- Discontinue use of this child restraint if it is older than TEN (10) YEARS. There is an expiry date for use of this child restraint indicated on the underside of the child restraint base.
- You MUST use the vehicle 3-point lap-and-shoulder belt when restraining the child in Booster Mode.
- Use this child restraint forward facing only.
- Follow all labels on this child restraint and in these written instructions. DO NOT INSTALL OR USE THIS CHILD RESTRAINT UNTIL YOU READ AND UNDER-

STAND THE INSTRUCTIONS IN THIS MANUAL AND IN YOUR VEHICLE OWNER'S MANUAL.

- DO NOT tamper with or modify the child restraint, including the buckles, harness system or UAS, for any reason.
- According to accident statistics, CHILDREN ARE SAFER WHEN PROPERLY RESTRAINED IN REAR VEHICLE SEATING POSITIONS THAN IN THE FRONT SEATING POSITION.
- DO NOT use this child restraint if it is damaged in any way or has missing parts.
- FAILURE TO PROPERLY READ, FOLLOW AND USE THESE INSTRUCTIONS AND THE CHILD RESTRAINT LABELS INCREASES THE RISK OF SERIOUS INJURY OR DEATH IN A SHARP TURN, SUDDEN STOP OR CRASH.
- DO NOT LEAVE A CHILD RESTRAINT UNSECURED IN YOUR VEHICLE.
- PARTS OF THE CHILD RESTRAINT COULD BECOME HOT ENOUGH TO BURN THE CHILD IF LEFT IN THE SUN.
- DO NOT, EXCEPT AS DESCRIBED IN THESE INSTRUCTIONS, MODIFY YOUR CHILD RESTRAINT, DISASSEMBLE ANY PART OR CHANGE THE WAY THE HARNESS OR VEHICLE SEAT BELTS ARE USED. This includes any accessories or parts by other manufacturers as non-tested accessories can affect the safety of the child restraint.
- This child restraint must NOT be used in homes, boats, buses, motorcycles, motor homes, or any other vehicles that have non-forward-facing seats, missing seat belts, or whose seat belts do not meet the requirements of this child restraint.
- NEVER PLACE THIS CHILD RESTRAINT IN A VEHICLE SEATING LOCATION THAT HAS AN ACTIVE AIRBAG.
- DO NOT USE A CHILD RESTRAINT THAT HAS BEEN IN AN ACCIDENT OF ANY KIND.
- NEVER leave children alone in a vehicle under any circumstance.
- DO NOT allow children to play with this child restraint.
- NO CHILD RESTRAINT CAN GUARANTEE PROTECTION WHEN THE VEHICLE IS SERIOUSLY IMPACTED.
- Your child restraint reclines to ensure proper installation into your vehicle. The child restraint must be installed so that all of its surface area is in contact with your vehicle seat.

General information

- To ensure proper child restraint use, keep and store this instruction manual and refer to it when necessary. (Fig. A)
- For children over 18.1 kg (40 lbs) requiring more harness length, remove black EPP pad under fabric on base of unit.
- Avoid unnecessary bulky clothing.
- For ease of fabric pad installations, turn recline knob counterclockwise to open gap at base of backrest to facilitate passing the hook and loop tabs through the gap to secure.

Register your new Defender Reha

Child restraints could be recalled for safety reasons. You must register this restraint to be reached in the event of a recall, and to be eligible to receive replacement parts while under warranty.

The model number, serial number and manufacturing date can be found on a label on the right side of backrest. (Fig. B)

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or call: 866 870 2122 (toll free)

or register online at: www.thomashilfen.us/registry

For recall information, call the U.S. Government's Vehicle Safety Hotline at 1-888-327-4236 (TTY: 1-800-424-9153) or go to www.NHTSA.gov

Contact a Child Passenger Safety (CPS) technician.

You can find a CPS technician in your area at www.nhtsa.dot.gov. Click on "Child Passenger Safety" and select "Certified Child Passenger Safety Technician Locator."

Attend a car seat check-up in your area.

More information about car seat check-ups is available at www.nhtsa.dot.gov under "Child Seat Inspections" or at www.seatcheck.org. You can also call 1-855-SEAT-CHECK to find the next or closest seat check event.

Technical data

Seat depth	13.5 in / 33 cm
Seat width	8.5 - 12 in / 21.5 - 30.5 cm *
Seat to head	23.5 - 30.5 in / 60 - 78 cm **
Shoulder height	10 - 19.5 in / 25 - 49.5 cm **
Lower leg length	(7 in ***) 11 - 17 in / (18 cm ***) 28 - 43 cm
Seat weight	22 lbs / 10 kg

HARNES MODE

Child weight	22 - 65 lbs / 10 - 29.5 kg
Child height	27 - 57 in / 68.6 - 144.8 cm

BOOSTER MODE

Child weight	30 - 110 lbs / 13.6 - 50kg
Child height	34 - 57 in / 86.4 - 144.8 cm

* To reach max. seat width remove additional hip guide pads from additional seat pad

** To reach max. back height and shoulder height remove additional seat pad and foam pad under seat cushion

*** To reach min. lower leg length you need to use footrest pad 834

PLEASE NOTE: Specs are subject to change without notice

5-point belt

Please note: Booster Mode ONLY:

The 5-point positioning belt integrated into the child seat is NOT a safety-relevant item. In this case the child is restrained by the vehicle's 3-point safety belt. The 5-point belt is only intended for use as a positioning belt to provide additional support for children with a body weight between 30 and 110 lbs / 13.6 and 50 kg and body height between 34 and 57 in / 86.4 and 144.8 cm.

WARNING: To ensure headrest is locked in position, gently push down on head rest. FAILURE TO ADJUST THE HARNESS STRAPS CORRECTLY COULD RESULT IN SERIOUS INJURY OR DEATH.

Harness and Booster Mode: For more information on the use of belts please consult the Harmony Defender user manual provided with the seat.

Loosen the harness strap by pushing the up-front metal harness adjuster at the front of the seat just above the adjustment strap and simultaneously pull the chest strap towards you. (Fig. 1a)

Tighten harness system by gently pulling on the up-front harness adjuster strap until all slack is removed from the system.

Unbuckle harness straps by pressing on the red buckle release button and by pulling the buckle clips out. (Fig.1b)

Head support

Pull the covers as tight as possible over the side parts of the headrest. (Fig. 2a + 2b)

The cover can be removed and machine washed at up to 30 °C / 86 °F.

Lateral trunk support

Attach the lateral trunk support by placing it on the seat. (Fig. 3a) Guide both hook and loop straps behind the back cover and hook and loop-fasten them behind the cover. (Fig. 3b)

The pad can be removed and machine washed at up to 30 °C / 86 °F.

Lateral seat support

The Harmony Defender Reha is fitted with a seat reducer. The lateral seat supports are fitted to the seat pad with hook and loop fastener. To increase seat width (21.5 to 30.5 cm / 8.5 to 12 in) just pull off the lateral seat supports from the seat reducer. (Fig. 4a)

The pads can be removed and machine washed at up to 30 °C / 86 °F.

Footrest adapter (accessory)

item code: 821/2

First pull off the 2 rubbers underneath the seat shell (Fig. 9a).

To be able to connect the Defender Reha with the footrest adapter, you must first mount the adapter plate to the seat. Remove the four screws (phillips) that are screwed into the seating shell of the Defender Reha from below (Fig. 9b).

Hold the adapter plate against the underside of the seat so that the countersunk bores in the plate are on the bottom and the wider end of the adapter plate is up against the rear end of the seat. Screw the plate onto the seat with the supplied longer screws (Fig. 9c).

Now position the seat at a 90° angle flush to the front of the footrest adapter (handle points forwards) and lower the seat onto the footrest adapter so that it is held in place by the hook and loop strips. If you want to remove the seat from the footrest adapter always do so by raising at the rear and tilting forwards. (Fig. 9d)

TRANSPORT: If transporting the seat with footrest adapter grasp the footrest adapter with one hand by the front handle and hold the rear of the seat firmly in the other hand. The seat and footrest adapter can also be transported eparately if too heavy.

FOOTREST: The footrest is mounted on the underside of the footrest adapter (location tubes) (Fig. 12b).

LATCH connector

item code: 818

(for footrest adapter – **Booster Mode ONLY**) (accessory)

Booster Mode ONLY:

If your vehicle is equipped with LATCH (Lower Anchors and Tethers for Children), the vehicle LATCH anchorage points may be visible at the seat crease.

Check your vehicle owner’s manual for your vehicle’s exact LATCH locations, anchor identifications and usage requirements for use with a child restraint.

NOTE: The LATCH connector cannot be used if the vehicle does not have LATCH anchors. Check before buying!

If LATCH anchors are not available in your car choose item 819 Stabilizing bow to install footrest adapter.

First release the rear locking screw on the tube support beneath the footrest adapter (the plate is rounded at this point). (Fig. 10a)

Then lay the LATCH connector onto the vehicle’s seat. The bore holes at the ends of the guide tubes must point downwards to the vehicle’s seat. Guide the LATCH connector (with yellow release buttons) into the vehicle’s LATCH anchors. Check that

the connectors have locked into place safely by pulling. Now fit the LATCH connector into the footrest adapter 's rear support (the plate is rounded at this point) with the released locking screw. (Fig. 10b)

Adjust the extension length of the LATCH connector to your vehicle. The child's car seat has to have contact with the backrest of the vehicle's seat when mounted on the footrest adapter. Once the requested position is adjusted, carefully raise the front of the footrest adapter until you can reach the rear locking screw and tighten this correctly. (Fig. 10c)

CAUTION: The LATCH connector for the footrest adapter serves to position the car seat and does not replace the safety belt. The child / the seat always has to be secured with the 3-point belt of the vehicle according to the user manual. Even when seat is not occupied.

Stabilising bow, rear
(for footrest adapter – Booster Mode ONLY) (accessory)

item code: 819

Booster Mode ONLY:

First release the rear locking screw on the tube support beneath the footrest adapter. Slide the stabilising bow on the rounded rear side into the tube support located there. (Fig 11a)

Now place the footrest adapter onto the seat so that the stabilising bow can be slid in as far as possible between the vehicle's backrest and seat. (Fig. 11b)

Adjust the extension length of the stabilising bow to your vehicle. The child's car seat has to have contact with the backrest of the vehicle's seat, when mounted on the footrest adapter.

Turn the footrest adapter around carefully and tighten the locking screw correctly. The screw should hereby fit exactly into one of the safety bore holes of the stabilising bow's guide tube.

NOTE: The stabilising bow can be used from both sides (Fig. 11c), try out both sides in your vehicle to find out which offers the most stability for the footrest adapter.

Footrest, short, depth 4.7 in / 12 cm (accessory)
Footrest, long, depth 7.1 in / 18 cm (accessory)

item code: 806

item code: 805

NOTE: You need to use a footrest adapter 821/2 to install a footrest 805 / 806.

Push the footrest tubes into the front of the adapter (Fig. 12a). To do this, depress the catch springs on the footrest. Always secure the footrest against falling out using the knurled nut on the left tube of the footrest adapter (Fig. 12b). Multiple holes in the

footrest tubes allow the footrest to be adjusted to match the depth of the vehicle's seat.

To stabilize the footrest on the vehicle floor adjust the height of the support bars by screwing them in or out until they have contact with the vehicle. Then lock the support bars with the hand knobs to prevent them unscrewing accidentally (Fig. 12c). Screw the hand knobs upwards as far as possible and tighten them fast.

Lower leg length (11 - 17 in / 28 - 43 cm):

The lower leg length is adjusted by changing the height of the footrest. Loosen both outer screws. Retighten them after each adjustment.

NOTE: You can use a footrest pad (item 834, height 4 in/ 10 cm) if a shorter lower leg length is required. (Fig. 12d)

Foot angle (Flexion 0 - 10°):

Loosen the four screws left and right on the underside of the footrest to adjust the desired foot angle with the rails. Then retighten the screws.

NOTE: Footrest and seat wedge below cannot be used in combination.

Seat wedge, below (accessory) item code: 810

Center the seat wedge (+10° recline) below the Defender Reha seat. (Fig. 5a) The high edge is at the front to achieve an optimum rest position of the child. (Fig. 5b)

The cover is removable (zipper) and can be machine washed at up to 30 °C / 86 °F.

NOTE: Footrest and seat wedge below cannot be used in combination.

Table (accessory) item code: 831

Mount the side parts of the table first, by pulling them over the armrests of the seat. (Fig. 6a) The side with the long loop fastener on top of armrest. Guide the hook straps between seat and back rest so hook straps can be attached to loop fastener on inner side of armrests. (Fig. 6b)

TIP: Turn recline knob counterclockwise to open gap at base of backrest to facilitate passing the hook and loop straps through the gap to secure.

Now attach the table to the hook and loop straps on top of the armrests. Guide the belt around the back of the seat and fasten it to the hook and loop fastener at the side of the table.

NOTE: For reasons of space the large crotch pad (item code 832) should be removed when using the table.

The cover is removable (zipper) and can be machine washed at up to 30 °C / 86 °F.

Abduction block (accessory)

item code: 833

Assembly:

Before assembling the abduction block, the crotch pad needs to be removed. Open the 5-point belt and remove the crotch pad by pulling it off the belt buckle. (Fig. 8a)

Remove the base plate underneath seat base unscrewing 4 philips screws. (Fig. 7a) Grasp metal locking plate of crotch strap and turn it 90 degrees (Fig. 7b) so you can slide it through through seat base opening to take crotch strap completely out. (Fig. 7c) Push metal locking plate through slit of abduction block from the top. (Fig. 7d) Guide crotch strap with abduction block back into seat base while sticking metal locking plate into needed slot position.

Ensure that metal locking plate sits in the right place and buckle is facing forward and strap is not twisted. Mount the base plate. Please remember to re-attach the crotch pad.

Adjustment position:

The abduction block has 2 positions. Lift the fabric seat pad on the base of Defender to expose the crotch strap and slot positions. Guide the crotch strap through the plastic base to the desired slot position.

The cover is removable (zipper) and can be machine washed at up to 30 °C / 86 °F. To remove the cover, the abduction block first has to be pulled off from the crotch strap as described above.

Crotch pad, large (accessory)

item code: 832

Remove the small standard crotch pad first, by pulling it off the crotch strap. (Fig. 8a) Attach the large crotch pad just like the small one, guiding the crotch strap through the crotch pad, coming from below.

The cover is removable (zipper) and can be machine washed at up to 30 °C / 86 °F.



Member of the International
Support Association for the
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